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### SEND ME INFORMATION ON THE FOLLOWING:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Transistor Sockets                 | <input type="checkbox"/> Integrated Circuit Sockets       | <input type="checkbox"/> DIP Sockets                          |
| <input type="checkbox"/> Board & Test Jacks                 | <input type="checkbox"/> Flat Package Sockets             | <input type="checkbox"/> DIP Carriers                         |
| <input type="checkbox"/> Op Amp Sockets                     | <input type="checkbox"/> Flat Pack Carriers & Contactors  | <input type="checkbox"/> Test & Aging Boards                  |
| <input type="checkbox"/> Module Test Sockets                | <input type="checkbox"/> Automatic Flat Pack Test Handler | <input type="checkbox"/> Relay Test Sockets                   |
| <input type="checkbox"/> Please put me on your mailing list |   | <input type="checkbox"/> Others -----                         |
| for above products.   |   | <input type="checkbox"/> Have sales representative call on me |

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**BARNES DEVELOPMENT CO.**

24 N. LANSLOWNE AVENUE

LANSLOWNE, PENNA. 19050

FIRST CLASS

PERMIT No. 488

LANSLOWNE

PENNSYLVANIA



*See The Line  
of Sockets for  
Breadboarding, Test,  
Aging, Production*

*...and everything  
in between*

**BOOTH 538 NEP/CON '67**

NEW YORK COLISEUM, NEW YORK, N.Y.  
JUNE 13 through 15, 1967

A detailed illustration of various electronic sockets and components, including breadboard sockets, test sockets, and production sockets, arranged in a grid-like pattern. The components are shown in a stylized, technical drawing style with blue and white colors.

**Quik/Sert  
SOCKETS**  
**CARRIERS and CONTACTORS**

**barnes**  
DEVELOPMENT COMPANY

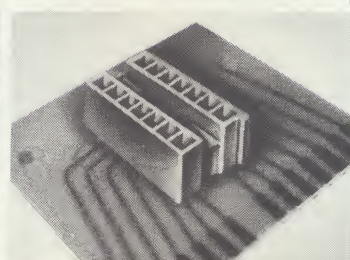
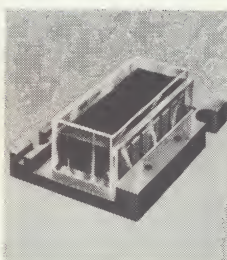
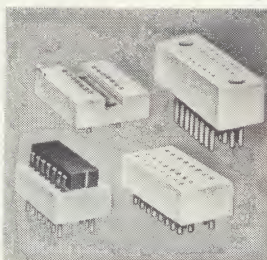
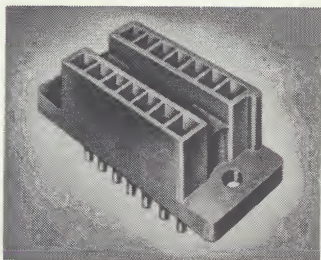
LANSDOWNE, PA. 19050 ■ (215) MA 2-1525



# BARNES *Quik/Sert* SOCKETS

FOR PRODUCTION, TEST, AGING AND BREADBOARDING

## SOCKETS FOR DUAL-IN-LINE INTEGRATED CIRCUITS



Barnes dual-in-line sockets are designed for packages with up to 16 round, octagonal or rectangular leads as short as 0.100" with 0.3" and 0.2" row spacing. Large chamfered entrances permit fast, easy insertion and withdrawal. Insertion force is 1 to 2 ounces per lead, depending on lead size. Sockets are available with or without mounting holes and flanges. Sockets may be specified with device removal slot. Removal tool is available. On MGL Series sockets, ejector key may be used for semi-automatic device removal. DIP sockets are also available mounted on standard 15-lead P.C. boards.

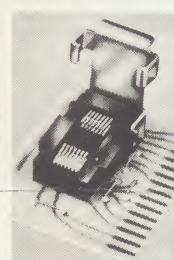
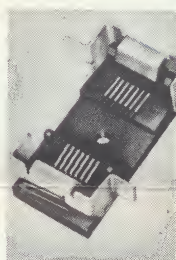
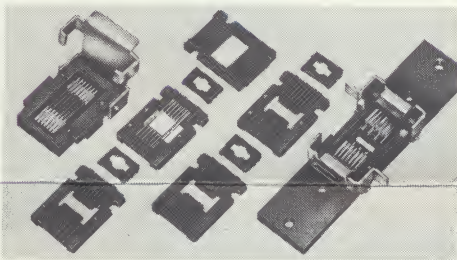
**BODY DIELECTRIC:** Excellent electrical characteristics at operating temperatures to 200°C or 150°C.

**MOUNTING & TERMINALS:** Chassis mounting—tubular terminals with or without solder cups; P.C. board mounting—tab type or pin terminals for dip or wave soldering.

**CONTACTS:** Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms typical.

**LIFE:** Up to 50,000 insertions typical.

## SERIES 029 CARRIERS and CONTACTORS FOR FLAT-PACK I.C.'s



029 carriers accept standard I.C. flat-packs, providing fast, simple loading. Barriers between leads give positive separation for 14 flat or preformed leads. Device is positively retained by reusable clip. Carriers also serve as shipping/test containers.

Carriers are inserted or removed from one-piece or two-piece contactors with a simple one-hand action, and held in place by stainless steel latches. Contacts provide uniform low resistance, won't scrape or mar leads.

Contactors are available for several carrier styles, including Model 029-017 for Fairchild carriers, Model 029-120 for Philco carriers and Series 036 for Westinghouse APC carriers. Model

029-196 is a contactor mounted on standard 15-lead P.C. board. Custom designs are available for special package sizes and configurations.

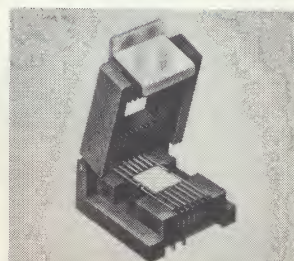
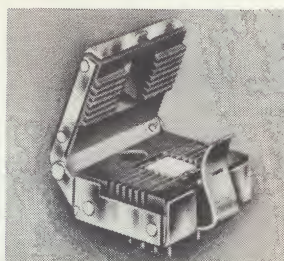
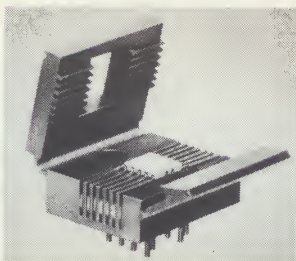
**BODY DIELECTRIC:** Continuous operating temperatures —65°C to 150°C or 200°C.

**PACKAGES ACCEPTED:** 1/8" x 1/4" up to 3/8" x 3/8".

**CONTACTS:** Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms.

**CONTACTOR LIFE:** Up to 100,000 insertions typical.

## SERIES MD "FLIP-TOP" SOCKETS FOR FLAT-PACK I.C.'s



Simple, fast loading; snap open, insert I.C., close and latch socket. Forces on leads uniformly distributed. No strain on body/lead junction. Barriers between leads give positive separation and automatic device positioning. Sockets can be hand wired, dip soldered, wire wrapped, or used as a carrier with RD-86 mating connector. MDP Series are sockets mounted on standard 15 lead P.C. boards. MD-100 Series sockets accept packages up to 1" x 1", with up to 40 leads on 0.050" centers, and feature advanced design snap-open lid.

**BODY DIELECTRIC:** MD-50 for continuous operation to 125°C;

MD-70 to 175°C; MD-80 and MD-90 to 150°C; MD-100 to 150°C or 200°C. Excellent electrical characteristics.

**PACKAGES ACCEPTED:** 1/8" x 1/4", 1/4" x 1/4" and 1/4" x 3/8" packages with up to 14 flat leads to 0.025" wide on 0.050" centers. MD-100 Series accept 3/8" to 1" package widths and up to 40 leads.

**CONTACTS:** Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms.

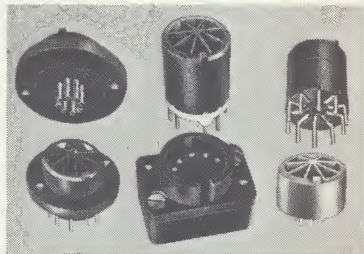
**LIFE:** Up to 50,000 insertions typical.



# BARNES *Quik/Sert* SOCKETS

## SOCKETS FOR TO PACKAGED I.C.'s AND TRANSISTORS

### SERIES MF SOCKETS WITH EXTRA-LARGE ENTRANCES



Pyramidal entrances for fast insertion of devices. No lead deformation. Low uniform contact resistance. 6, 8, 10, 12 and 14 lead arrangements.

**STYLES/TERMINALS:** Chassis mounting—straight barrel terminals with/without solder hole; P.C. board mounting—offset wire or ribbon terminals; mating base connector RD-62 available.

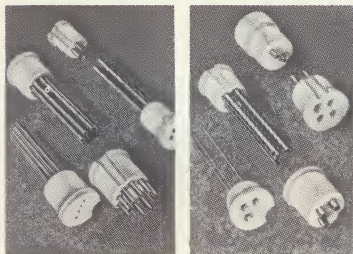
**BODY:** Polysulfone or Teflon FEP standard. Operating temperatures to 150°C or 200°C.

**LEADS ACCEPTED:** 0.015" to 0.025" diameters; 0.30" to 1½" lengths.

**CONTACTS:** Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms typical.

**LIFE:** Up to 50,000 insertions typical.

### SERIES MA and MS TEFLON PRESS-MOUNTING SOCKETS



Largest line of high-quality, long life sockets for I.C.'s, transistors, other miniature components. Also in-line high frequency and power transistor sockets. Low capacitance and loss factor. Easy-insertion chamfered entrances. Polarization notch on all sockets.

**MOUNTING:** Compression fit in round hole or use with mounting saddle. Long or short guide tubes.

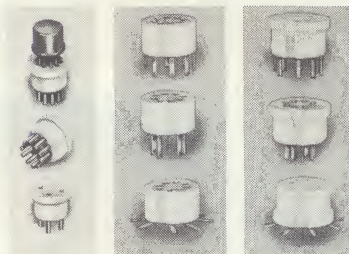
**BODY:** Teflon TFE or Polysulfone for operation to 200°C or 150°C.

**LEADS ACCEPTED:** 0.015" to 0.042" diameters, 0.120" to 1½" lengths.

**CONTACTS:** Spring temper, wiping type. Ni/Au Plated Be Cu. Terminal Ni/Au plated brass. Resistance less than 0.01 ohms typical.

**LIFE:** Up to 100,000 insertions typical.

### SERIES MG EXTRA-COMPACT TEFLON SOCKETS



Featuring compact size, ease of insertion, rapid mounting and positive lead retention. For transistors, tubes, I.C.'s and modules with 3, 4, 5, 6, 8, 10, 12 or 14 leads. MGR, MGS, MGRC have 0.215" profile above P.C. board.

**STYLES & TERMINALS:** Chassis mounting; dip or wave soldering to P.C. board. Straight barrel terminals with or without soldering holes; straight through, offset or expanded circle ribbon terminals.

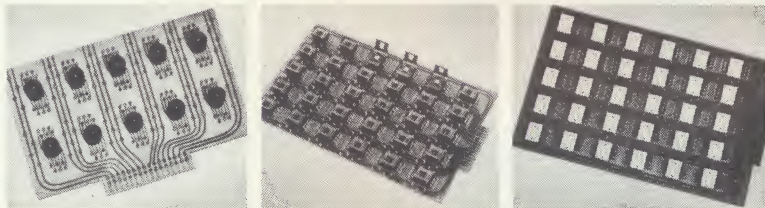
**BODY:** Teflon TFE for -65°C to 200°C operating range.

**LEADS ACCEPTED:** 0.015" to 0.25" diameter; 5/32" minimum length.

**CONTACTS:** Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms typical.

**LIFE:** Up to 50,000 insertions typical.

### SERIES 030 SOCKET BREADBOARDS FOR TO's/FLAT-PACK's/DIP's



Series 030 Breadboards are available in 10, 20 or 30 socket configurations to accommodate TO packages, flat-pack or dual-in-line integrated circuits. The breadboard/test assemblies permit rapid interconnection of I.C.'s for circuit evaluation and power testing.

**BOARD:** G-10 epoxy glass.

**TEMP. RANGE:** -65°C to 125°C.

**POWER CONNECTIONS:** Power, input/output busses run full length of board with two connections on each buss for each socket position.

**EDGE CONNECTORS:** Edge fingers or Elco 5000 Series.

**INTERCONNECTIONS:** Two alternate designs are available: for power aging, wiring is soldered to turret lugs connected to each socket and the busses; for circuit evaluation, spring-loaded pin jacks are interconnected with wire jumpers, allowing the same units to be used repeatedly to evaluate various circuit designs.

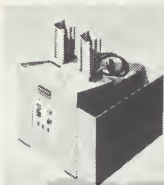
**SOCKETS:** MF for TO packages; MD-50 for flat-packs; MGRX for DIP's.

**SPECIAL BOARDS ALSO AVAILABLE**

Teflon—DuPont TM

### MODEL 037 AUTOMATIC I.C. FLAT-PACK TEST HANDLER

Model 037 Test Handler facilitates rapid testing of 14 lead flat-packs in Barnes standard 029 Series carriers. Handling is fast, easy, automatic. Manual or magazine loading. Positive polarization. Typical 1 second cycle rate. Ni/Au plated Be Cu wiping type test probes.



**SPEEDS USE OF FLAT-PACK TESTERS:** Eliminates slow, manual test feeding. One second cycle rate makes best utilization of expensive, automatic I.C. flat-pack parameter test equipment.

**QUALITY CONTROL:** For quick checks on small or large flat-pack quantities.

**INCOMING INSPECTION:** For the I.C. user requiring in-house inspection.

Custom Sockets, Carriers and Contactors can be quickly produced in any quantity to meet your requirements. Call your representative or write to:

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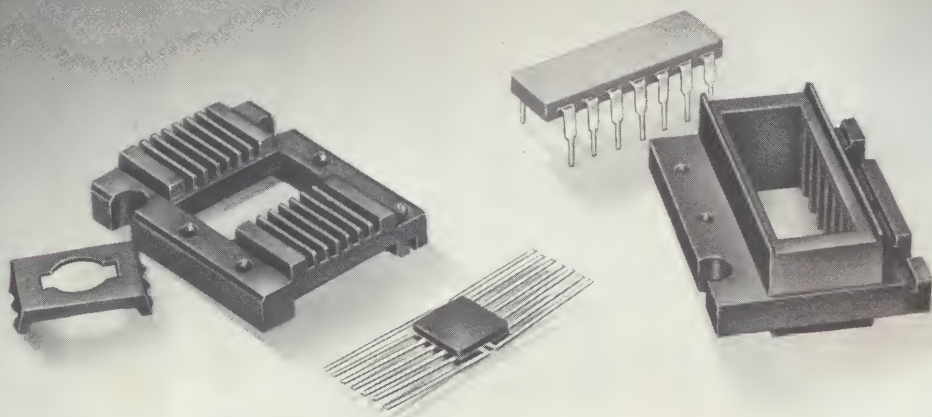
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